

AN 2002:344405 USPATFULL
 TI Compositions for release of **radiosensitizers**, and methods of making and using the same
 IN Dang, Wenbin, Ellicott City, MD, UNITED STATES
 Leong, Kam W., Ellicott City, MD, UNITED STATES
 Williams, Jeffery A., Baltimore, MD, UNITED STATES
 PI US 2002198135 A1 20021226
 AI US 2001-976283 A1 20011012 (9)
 PRAI US 2000-239807P 20001012 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 3760
 INCL INCLM: 514/001.000
 INCLS: 424/078.310; 600/001.000
 NCL NCLM: 514/001.000
 NCLS: 424/078.310; 600/001.000
 IC [7]
 ICM: A61K051-00
 ICS: A61K031-785
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 2 OF 2 USPATFULL
 AN 2002:258399 USPATFULL
 TI Compositions for **treatment** of malignant effusions, and methods of making and using the same
 IN Dang, Wenbin, Ellicott City, MD, UNITED STATES
 PI US 2002141966 A1 20021003
 AI US 2001-999257 A1 20011115 (9)
 PRAI US 2000-249326P 20001116 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 3930
 INCL INCLM: 424/078.370
 INCLS: 514/449.000
 NCL NCLM: 424/078.370
 NCLS: 514/449.000
 IC [7]
 ICM: A61K031-765
 ICS: A61K031-337
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 13 1-28 ibib abs

L3 ANSWER 1 OF 28 USPATFULL
 ACCESSION NUMBER: 2003:59764 USPATFULL
 TITLE: Ultrasound assembly for use with light activated drugs
 INVENTOR(S): Tachibana, Katsuro, Fukuoka, JAPAN
 Tachibana, Shunro, Fukuoka, JAPAN
 Anderson, James R., Redmond, WA, United States
 Lichttenegger, Gary, Woodinville, WA, United States
 PATENT ASSIGNEE(S): Ekos Corporation, Bothell, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6527759	B1	20030304
APPLICATION INFO.:	US 2000-620701		20000720 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-158316, filed on 21 Sep 1998, now patented, Pat. No. US 6176842		
	Continuation-in-part of Ser. No. US 1998-129980, filed on 5 Aug 1998, now patented, Pat. No. US 6210356		

Continuation-in-part of Ser. No. US 1997-972846, filed
on 18 Nov 1997, now abandoned Continuation of Ser. No.
US 1996-611105, filed on 5 Mar 1996, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1995-48710	19950305
	JP 1997-70617	19970919
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Bockelman, Mark	
LEGAL REPRESENTATIVE:	Knobbe, Martens, Olson & Bear, LLP	
NUMBER OF CLAIMS:	28	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	121 Drawing Figure(s); 59 Drawing Page(s)	
LINE COUNT:	3235	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A kit and method for causing tissue death within a tissue site is disclosed. The kit includes a media with a light activated drug activatable upon exposure to a particular level of ultrasound energy. The kit also includes a catheter with a lumen coupled with a media delivery port through which the light activated drug can be locally delivered to the tissue site. The ultrasound transducer is configured to transmit the level of ultrasound energy which activates the light activated drug with sufficient power that the ultrasound energy can penetrate the tissue site.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 28 USPATFULL

ACCESSION NUMBER: 2003:57049 USPATFULL
TITLE: Novel therapeutic delivery systems
INVENTOR(S): Unger, Evan C., Tucson, AZ, UNITED STATES
Fritz, Thomas A., Tucson, AZ, UNITED STATES
Matsunaga, Terry, Tucson, AZ, UNITED STATES
Ramaswami, VaradaRajan, Tucson, AZ, UNITED STATES
Yellowhair, David, Rio Rancho, NM, UNITED STATES
Wu, Guanli, Eldersburg, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003039613	A1	20030227
APPLICATION INFO.:	US 2002-108284	A1	20020326 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-485998, filed on 7 Jun 1995, GRANTED, Pat. No. US 6443898 Division of Ser. No. US 1993-160232, filed on 30 Nov 1993, GRANTED, Pat. No. US 5542935 Continuation-in-part of Ser. No. US 1993-159687, filed on 30 Nov 1993, GRANTED, Pat. No. US 5585112 Continuation-in-part of Ser. No. US 1993-159674, filed on 30 Nov 1993, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	WOODCOCK WASHBURN LLP, ONE LIBERTY PLACE, 46TH FLOOR, 1650 MARKET STREET, PHILADELPHIA, PA, 19103		
NUMBER OF CLAIMS:	40		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	23 Drawing Page(s)		
LINE COUNT:	4082		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Targeted therapeutic delivery systems comprising gas- or gaseous precursor-filled lipid microspheres comprising a therapeutic are described. Methods for employing such microspheres in therapeutic

delivery applications are also provided.

Targeted therapeutic delivery systems comprising gas- or gaseous precursor-filled liposomes having a drug encapsulated therein are preferred. Methods of and apparatus for preparing such liposomes and methods for employing such liposomes in therapeutic delivery applications are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 28 USPATFULL

ACCESSION NUMBER: 2003:3022 USPATFULL

TITLE: Methods of preparing gaseous precursor-filled microspheres

INVENTOR(S): Unger, Evan C., Tucson, AZ, UNITED STATES
Fritz, Thomas A., Tucson, AZ, UNITED STATES
Matsunaga, Terry, Tucson, AZ, UNITED STATES
Ramaswami, VaradaRajan, Tucson, AZ, UNITED STATES
Yellowhair, David, Tucson, AZ, UNITED STATES
Wu, Guanli, Tucson, AZ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003003055	A1	20030102
APPLICATION INFO.:	US 2002-213600	A1	20020806 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-118329, filed on 17 Jul 1998, PENDING Division of Ser. No. US 1995-487230, filed on 6 Jun 1995, GRANTED, Pat. No. US 5853752 Division of Ser. No. US 1993-159687, filed on 30 Nov 1993, GRANTED, Pat. No. US 5585112 Continuation-in-part of Ser. No. US 1993-160232, filed on 30 Nov 1993, GRANTED, Pat. No. US 5542935 Continuation-in-part of Ser. No. US 1993-159674, filed on 30 Nov 1993, ABANDONED Continuation-in-part of Ser. No. US 1991-717084, filed on 18 Jun 1991, GRANTED, Pat. No. US 5228446 Continuation-in-part of Ser. No. US 1991-716899, filed on 18 Jun 1991, ABANDONED Continuation-in-part of Ser. No. US 1989-455707, filed on 22 Dec 1989, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	WOODCOCK WASHBURN LLP, ONE LIBERTY PLACE, 46TH FLOOR, 1650 MARKET STREET, PHILADELPHIA, PA, 19103		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Page(s)		
LINE COUNT:	2880		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of and apparatus for preparing gas-filled microspheres are described. Gas-filled microspheres prepared by these methods are particularly useful, for example, in ultrasonic imaging applications and in therapeutic drug delivery systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 28 USPATFULL

ACCESSION NUMBER: 2002:344405 USPATFULL

TITLE: Compositions for release of **radiosensitizers**, and methods of making and using the same

INVENTOR(S): Dang, Wenbin, Ellicott City, MD, UNITED STATES
Leong, Kam W., Ellicott City, MD, UNITED STATES
Williams, Jeffery A., Baltimore, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002198135	A1	20021226
APPLICATION INFO.:	US 2001-976283	A1	20011012 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-239807P	20001012 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FOLEY HOAG LLP, PATENT GROUP, WORLD TRADE CENTER WEST, 155 SEAPORT BOULEVARD, BOSTON, MA, 02110-2600	
NUMBER OF CLAIMS:	60	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	36 Drawing Page(s)	
LINE COUNT:	3760	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to compositions comprising a **biocompatible polymer** with phosphorous linkages and a **radiosensitizer**, and methods of making and using the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 28 USPATFULL

ACCESSION NUMBER: 2002:297280 USPATFULL

TITLE: Method of preparing gas and gaseous precursor-filled microspheres

INVENTOR(S): Unger, Evan C., Tucson, AZ, United States
Fritz, Thomas A., Tucson, AZ, United States
Matsunaga, Terry, Tucson, AZ, United States
Ramaswami, VaradaRajan, Tucson, AZ, United States
Yellowhair, David, Tucson, AZ, United States
Wu, Guanli, Tucson, AZ, United States

PATENT ASSIGNEE(S): Bristol-Myers Squibb Medical Imaging, Inc., Princeton, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6479034	B1	20021112
APPLICATION INFO.:	US 1998-118329		19980717 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-487230, filed on 6 Jun 1995, now patented, Pat. No. US 5853752 Division of Ser. No. US 1993-159687, filed on 30 Nov 1993 Continuation-in-part of Ser. No. US 1993-160232, filed on 30 Nov 1993, now patented, Pat. No. US 5542935 Continuation-in-part of Ser. No. US 1993-159674, filed on 30 Nov 1993, now abandoned Continuation-in-part of Ser. No. US 1993-76239, filed on 11 Jun 1993, now patented, Pat. No. US 5469854 Continuation-in-part of Ser. No. US 1991-717084, filed on 18 Jun 1991, now patented, Pat. No. US 5228446 Continuation-in-part of Ser. No. US 1991-716899, filed on 18 Jun 1991, now abandoned Continuation-in-part of Ser. No. US 1990-569828, filed on 20 Aug 1990, now patented, Pat. No. US 5088499 Continuation-in-part of Ser. No. US 1989-455707, filed on 22 Dec 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Travers, Russell		
LEGAL REPRESENTATIVE:	Woodcock Washburn LLP		
NUMBER OF CLAIMS:	62		

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 12 Drawing Page(s)
LINE COUNT: 3606

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of and apparatus for preparing temperature activated gaseous precursor-filled liposomes are described. Gaseous precursor-filled liposomes prepared by these methods are particularly useful, for example, in ultrasonic imaging applications and in therapeutic drug delivery systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 28 USPATFULL

ACCESSION NUMBER: 2002:273488 USPATFULL

TITLE: Biodegradable polymers chain-extended by phosphates, compositions, articles and methods for making and using the same

INVENTOR(S): Mao, Hai-Quan, Towson, MD, UNITED STATES
Leong, Kam W., Ellicott City, MD, UNITED STATES
Zhao, Zhong, Baltimore, MD, UNITED STATES
English, James P., Chelsea, AL, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002151617	A1	20021017
APPLICATION INFO.:	US 2002-47941	A1	20020115 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-654326, filed on 1 Sep 2000, GRANTED, Pat. No. US 6376644 Continuation of Ser. No. US 1998-53649, filed on 2 Apr 1998, GRANTED, Pat. No. US 6166173 Continuation-in-part of Ser. No. US 1997-832217, filed on 3 Apr 1997, ABANDONED		

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

FOLEY, HOAG & ELIOT LLP, ONE POST OFFICE SQUARE, BOSTON, MA, 02109

NUMBER OF CLAIMS:

133

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

17 Drawing Page(s)

LINE COUNT:

1755

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Biodegradable polymers are described comprising the recurring monomeric units shown in formula I or II: ##STR1##

wherein X is --O-- or --NR'--, where R' is H or alkyl; L is a branched or straight chain aliphatic group having from 1-20 carbon atoms; M.sub.1 and M.sub.2 are each independently (1) a branched or straight chain aliphatic group having from 1-20 carbon atoms; or (2) a branched or straight chain, oxy-, carboxy- or amino-aliphatic group having from 1-20 carbon atoms; Y is --O--, --S-- or --NR'--, where E' is H or alkyl; R is H, alkyl, alkoxy, aryl, aryloxy, heterocyclic or heterocycloxy; the molar ratio of x:y is about 1; the molar ratio n:(x or y) is between about 200:1 and 1:200; and the molar ratio q:r is between about 1:99 and 99:1; wherein said biodegradable **polymer** is **biocompatible** before and upon biodegradat.

Processes for preparing the polymers, compositions containing the polymers and biologically active substances, articles useful for implantation or injection into the body fabricated from the compositions, and methods for controllably releasing biologically active substances using the polymers, are also described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 28 USPATFULL

ACCESSION NUMBER: 2002:272424 USPATFULL
TITLE: Ultrasound imaging and **treatment**
INVENTOR(S): Unger, Evan C., Tucson, AZ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002150539	A1	20021017
APPLICATION INFO.:	US 2002-113577	A1	20020402 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 1997-796798, filed on 6 Feb 1997, PENDING Continuation of Ser. No. US 1995-487230, filed on 6 Jun 1995, GRANTED, Pat. No. US 5853752 Division of Ser. No. US 1993-159687, filed on 30 Nov 1993, GRANTED, Pat. No. US 5585112 Continuation-in-part of Ser. No. US 1993-160232, filed on 30 Nov 1993, GRANTED, Pat. No. US 5542935 Continuation-in-part of Ser. No. US 1993-159674, filed on 30 Nov 1993, ABANDONED Continuation-in-part of Ser. No. US 1993-76239, filed on 11 Jun 1993, GRANTED, Pat. No. US 5469854 Continuation-in-part of Ser. No. US 1991-717084, filed on 18 Jun 1991, GRANTED, Pat. No. US 5228446 Continuation-in-part of Ser. No. US 1991-716899, filed on 18 Jun 1991, ABANDONED Continuation-in-part of Ser. No. US 1990-569828, filed on 20 Aug 1990, GRANTED, Pat. No. US 5088499 Continuation-in-part of Ser. No. US 1989-455707, filed on 22 Dec 1989, ABANDONED Continuation-in-part of Ser. No. US 1991-716793, filed on 18 Jun 1991, GRANTED, Pat. No. US 5209720 Continuation-in-part of Ser. No. US 1990-581027, filed on 11 Sep 1990, GRANTED, Pat. No. US 5149319		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	WOODCOCK WASHBURN LLP, ONE LIBERTY PLACE, 46TH FLOOR, 1650 MARKET STREET, PHILADELPHIA, PA, 19103		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Page(s)		
LINE COUNT:	3587		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of and apparatus for preparing temperature activated gaseous precursor-filled liposomes are described. Gaseous precursor-filled liposomes prepared by these methods are particularly useful, for example, in ultrasonic imaging applications and in therapeutic drug delivery systems.

Gas, gaseous precursors and perfluorocarbons are presented as novel potentiators for ultrasonic hyper-thermia. The gas, gaseous precursors and perfluorocarbons which may be administered into the vasculature, interstitially or into any body cavity are designed to accumulate in **cancerous** and diseased tissues. When therapeutic ultrasonic energy is applied to the diseased region heating is increased because of the greater effectiveness of sound energy absorption caused by these agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 8 OF 28 USPATFULL

ACCESSION NUMBER: 2002:258399 USPATFULL
TITLE: Compositions for **treatment** of malignant effusions, and methods of making and using the same

INVENTOR(S): Dang, Wenbin, Ellicott City, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002141966	A1	20021003
APPLICATION INFO.:	US 2001-999257	A1	20011115 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-249326P	20001116 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FOLEY, HOAG & ELIOT LLP, ONE POST OFFICE SQUARE, BOSTON, MA, 02109	
NUMBER OF CLAIMS:	50	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	3930	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to compositions of a **biocompatible polymer** and an antineoplastic taxane, and methods of using and making the same, for the **treatment** of malignant effusions. In certain embodiments, the **polymer** contains phosphorous linkages.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 9 OF 28 USPATFULL

ACCESSION NUMBER: 2002:224017 USPATFULL
TITLE: Therapeutic delivery systems
INVENTOR(S): Unger, Evan C., Tucson, AZ, United States
Fritz, Thomas A., Tucson, AZ, United States
Matsunaga, Terry, Tucson, AZ, United States
Ramaswami, VaradaRajan, Tucson, AZ, United States
Yellowhair, David, Tucson, AZ, United States
Wu, Guanli, Tucson, AZ, United States
PATENT ASSIGNEE(S): Imarx Pharmaceutical Corp., Roy, UT, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6443898	B1	20020903
APPLICATION INFO.:	US 1995-485998		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1993-160232, filed on 30 Nov 1993, now patented, Pat. No. US 5542935 Continuation-in-part of Ser. No. US 1993-159687, filed on 30 Nov 1993, now patented, Pat. No. US 5585112 Continuation-in-part of Ser. No. US 1993-159674, filed on 30 Nov 1993, now abandoned Continuation-in-part of Ser. No. US 1993-76250, filed on 11 Jun 1993, now patented, Pat. No. US 5580575 Continuation-in-part of Ser. No. US 1991-716899, filed on 18 Jun 1991, now abandoned Continuation-in-part of Ser. No. US 1991-717084, filed on 18 Jun 1991, now patented, Pat. No. US 5228446 Continuation-in-part of Ser. No. US 1990-569828, filed on 20 Aug 1990, now patented, Pat. No. US 5088499 Continuation-in-part of Ser. No. US 1989-455707, filed on 22 Dec 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Jaworsid, Francis J.		
LEGAL REPRESENTATIVE:	Woodcock Washburn Kurtz Mackiewicz & Norris LLP		

NUMBER OF CLAIMS: 96
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 25 Drawing Figure(s); 23 Drawing Page(s)
LINE COUNT: 4623

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Therapeutic delivery systems comprising gaseous precursor-filled microspheres comprising a therapeutic are described. Methods for employing such microspheres in therapeutic delivery applications are also provided. Therapeutic delivery systems comprising gaseous precursor-filled liposomes having encapsulated therein a contrast agent or drug are preferred. Methods of and apparatus for preparing such liposomes and methods for employing such liposomes in therapeutic delivery applications are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 10 OF 28 USPATFULL

ACCESSION NUMBER: 2002:172470 USPATFULL

TITLE: Biodegradable terephthalate polyester-poly (phosphate) polymers, compositions, articles, and methods for making and using the same

INVENTOR(S): Mao, Hai-Quan, Towson, MD, UNITED STATES
Leong, Kam W., Ellicott City, MD, UNITED STATES
Dang, Wenbin, Baltimore, MD, UNITED STATES
Lo, Hungnan, Shaker Heights, MD, UNITED STATES
Zhao, Zhong, Baltimore, MD, UNITED STATES
Nowotnik, David P., Kingsville, MD, UNITED STATES
English, James P., Chelsea, AL, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002091230	A1	20020711
APPLICATION INFO.:	US 2001-921297	A1	20010802 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1998-53648, filed on 2 Apr 1998, PATENTED Continuation-in-part of Ser. No. US 1997-832215, filed on 3 Apr 1997, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	FOLEY, HOAG & ELIOT LLP, ONE POST OFFICE SQUARE, BOSTON, MA, 02109		
NUMBER OF CLAIMS:	114		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	16 Drawing Page(s)		
LINE COUNT:	1847		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Biodegradable terephthalate polymers are described comprising the recurring monomeric units shown in formula I: ##STR1##

wherein R is a divalent organic moiety;

R' is an aliphatic, aromatic or heterocyclic residue;

x is .gtoreq.1; and

n is 0-5,000,

wherein the biodegradable **polymer** is **biocompatible** before and upon biodegradation.

Processes for preparing the polymers, compositions containing the polymers and biologically active substances, articles useful for implantation or injection into the body fabricated from the

compositions, and methods for controllably releasing biologically active substances using the polymers, are also described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 11 OF 28 USPATFULL

ACCESSION NUMBER: 2002:113105 USPATFULL

TITLE: Method of administering a therapeutically active substance

INVENTOR(S): Kaplan, Edward J., Boca Raton, FL, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002058853	A1	20020516
	US 6514193	B2	20030204
APPLICATION INFO.:	US 2001-861196	A1	20010518 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-249128P	20001116 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Stanley A. Kim, Akerman, Senterfitt & Eidson, P.A., Suite 400, P.O. Box 3188, 222 Lakeview Avenue, West Palm Beach, FL, 33402-3188	
NUMBER OF CLAIMS:	8	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	1014	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for administering a therapeutically active component including a non-radioactive drug to a target tissue in a subject includes the steps of: (a) providing a brachytherapy seed having a size and shape suitable for passing through the bore of a needle having an interior diameter of less than about 2.7 millimeters (10 gauge); (b) providing a brachytherapy implantation instrument comprising at least one brachytherapy implantation needle having a bore having an interior diameter of less than about 2.7 millimeters (10 gauge), and being adapted to accept the brachytherapy seed into the bore of the at least one brachytherapy implantation needle and deliver the accepted implantation device into a target tissue; (c) introducing the brachytherapy seed into the bore of the at least one implantation needle of the brachytherapy implantation instrument; (d) introducing at least a portion of the at least one brachytherapy implantation needle into a target tissue in the subject; and (e) actuating the brachytherapy implantation instrument such that the brachytherapy seed is delivered through the bore of the brachytherapy implantation needle into the target tissue.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 12 OF 28 USPATFULL

ACCESSION NUMBER: 2002:112324 USPATFULL

TITLE: Brachytherapy seed

INVENTOR(S): Kaplan, Edward J., Boca Raton, FL, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002058057	A1	20020516
APPLICATION INFO.:	US 2001-861326	A1	20010518 (9)

NUMBER	DATE
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PRIORITY INFORMATION: US 2000-249128P 20001116 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Stanley A. Kim, Akerman,, Senterfitt & Eidson, P.A.,
222 Lakeview Avenue, Suite 400, P.O. Box 3188, West
Palm Beach, FL, 33402-3188

NUMBER OF CLAIMS: 60
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 1210

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A radiopaque brachytherapy seed for implantation into a subject includes a **biocompatible** component, a therapeutically active component including a non-radioactive drug, and a radiopaque marker. The **biocompatible** component is (a) physically associated with a therapeutically active component and (b) in contact with the radiopaque marker. The brachytherapy seed has a size and shape suitable for passing through the bore of a needle having an interior diameter of less than about 2.7 millimeters (10 gauge).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 13 OF 28 USPATFULL

ACCESSION NUMBER: 2002:106455 USPATFULL
TITLE: Compositions and methods for **treating** disease
utilizing a combination of radioactive therapy and
cell-cycle inhibitors

INVENTOR(S): Hunter, William L., Vancouver, CANADA
Gravett, David M., Vancouver, CANADA
Liggins, Richard T., Coquitlam, CANADA
Loss, Troy A.E., North Vancouver, CANADA
Maiti, Arpita, Vancouver, CANADA
Toleikis, Philip M., Vancouver, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002055666	A1	20020509
APPLICATION INFO.:	US 2001-865195	A1	20010524 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2000-712047, filed on 13 Nov 2000, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-165259P	19991112 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092	

NUMBER OF CLAIMS: 357
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Page(s)
LINE COUNT: 9469

AB Disclosed herein are therapeutic devices, compositions and methods for **treating** proliferative diseases. For example, within one aspect of the invention therapeutic devices are provided, comprising a device that locally administers radiation and a cell-cycle inhibitor

L3 ANSWER 14 OF 28 USPATFULL

ACCESSION NUMBER: 2002:88613 USPATFULL
TITLE: Biodegradable polymers chain-extended by phosphates,

biodegradable **polymer** is **biocompatible** before and upon biodegradat.

Processes for preparing the polymers, compositions containing the polymers and biologically active substances, articles useful for implantation or injection into the body fabricated from the compositions, and methods for controllably releasing biologically active substances using the polymers, are also described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 18 OF 28 USPATFULL

ACCESSION NUMBER: 2000:70426 USPATFULL
TITLE: Targeted gas and gaseous precursor-filled liposomes
INVENTOR(S): Unger, Evan C., Tucson, AZ, United States
Fritz, Thomas A., Tucson, AZ, United States
Matsunaga, Terry, Tucson, AZ, United States
Ramaswami, VaradaRajan, Tucson, AZ, United States
Yellowhair, David, Tucson, AZ, United States
Wu, Guanli, Tucson, AZ, United States
PATENT ASSIGNEE(S): ImaRx Pharmaceutical Corp., Tucson, AZ, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6071495		20000606
APPLICATION INFO.:	US 1997-942862		19971002 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-487230, filed on 6 Jun 1995, now patented, Pat. No. US 5853752 which is a division of Ser. No. US 1993-159687, filed on 30 Nov 1993, now patented, Pat. No. US 5585112, issued on 17 Dec 1996 which is a continuation-in-part of Ser. No. US 1993-160232, filed on 30 Nov 1993, now patented, Pat. No. US 5542935, issued on 6 Aug 1996 And a continuation-in-part of Ser. No. US 1993-159674, filed on 30 Nov 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-76239, filed on 11 Jun 1993, now patented, Pat. No. US 5469854, issued on 28 Nov 1995 which is a continuation-in-part of Ser. No. US 1991-717084, filed on 18 Jun 1991, now patented, Pat. No. US 5228446, issued on 20 Jul 1993 And a continuation-in-part of Ser. No. US 1991-716899, filed on 18 Jun 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-569828, filed on 20 Aug 1990, now patented, Pat. No. US 5088499, issued on 18 Feb 1992 which is a continuation-in-part of Ser. No. US 1989-455707, filed on 22 Dec 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Dees, Jose' G.		
ASSISTANT EXAMINER:	Hartley, Michael G.		
LEGAL REPRESENTATIVE:	Woodcock Washburn Kurtz Mackiewicz & Norris LLP		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 12 Drawing Page(s)		
LINE COUNT:	3320		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of and apparatus for preparing temperature activated gaseous precursor-filled liposomes are described. Gaseous precursor-filled liposomes prepared by these methods are particularly useful, for example, in ultrasonic imaging applications and in therapeutic drug

delivery systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 19 OF 28 USPATFULL

ACCESSION NUMBER: 1999:92272 USPATFULL
TITLE: Methods of preparing gas-filled liposomes
INVENTOR(S): Unger, Evan C., Tucson, AZ, United States
Fritz, Thomas A., Tucson, AZ, United States
Matsunaga, Terry, Tucson, AZ, United States
Ramaswami, VaradaRajan, Tucson, AZ, United States
Yellowhair, David, Tucson, AZ, United States
Wu, Guanli, Tucson, AZ, United States
PATENT ASSIGNEE(S): ImaRx Pharmaceutical Corp., Tucson, AZ, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5935553		19990810
APPLICATION INFO.:	US 1996-758179		19961125 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-471250, filed on 6 Jun 1995, now patented, Pat. No. US 5715824 which is a division of Ser. No. US 1993-76239, filed on 11 Jun 1993, now patented, Pat. No. US 5469854 which is a continuation-in-part of Ser. No. US 1991-716899, filed on 18 Jun 1991, now abandoned And Ser. No. US 1991-717084, filed on 18 Jun 1991, now patented, Pat. No. US 5228446 which is a continuation-in-part of Ser. No. US 1990-569828, filed on 20 Aug 1990, now patented, Pat. No. US 5088499 which is a continuation-in-part of Ser. No. US 1989-455707, filed on 22 Dec 1989, now abandoned, said Ser. No. US 716899 which is a continuation-in-part of Ser. No. US 569828		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Stucker, Jeffrey		
LEGAL REPRESENTATIVE:	Woodcock Washburn Kurtz Mackiewicz & Norris LLP		
NUMBER OF CLAIMS:	48		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 10 Drawing Page(s)		
LINE COUNT:	2336		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of and apparatus for preparing gas-filled liposomes are described. Gas-filled liposomes prepared by these methods are particularly useful, for example, in ultrasonic imaging applications and in therapeutic drug delivery systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 20 OF 28 USPATFULL

ACCESSION NUMBER: 1999:88767 USPATFULL
TITLE: Therapeutic and diagnostic imaging compositions and methods
INVENTOR(S): Snow, Robert A., West Chester, PA, United States
Ladd, David L., Wayne, PA, United States
Toner, John L., Downingtown, PA, United States
PATENT ASSIGNEE(S): Sterling Winthrop Inc., New York, NY, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5932188		19990803

APPLICATION INFO.: US 1997-963125 19971028 (8)
 RELATED APPLN. INFO.: Continuation of Ser. No. US 1995-493523, filed on 22 Jun 1995, now abandoned which is a continuation of Ser. No. US 1994-352682, filed on 30 Nov 1994, now abandoned which is a continuation of Ser. No. US 1992-960745, filed on 14 Oct 1992, now abandoned

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Dees, Jose' G.
 ASSISTANT EXAMINER: Hartley, Michael G.
 LEGAL REPRESENTATIVE: Fish & Richardson P.C.
 NUMBER OF CLAIMS: 15
 EXEMPLARY CLAIM: 1
 LINE COUNT: 1005

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides therapeutic and diagnostic imaging compositions and methods featuring a **polymer** comprising units containing a poly(alkylene oxide) moiety linked to the residue of a chelating agent, said **polymer** having a cytotoxic agent associated therewith.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 21 OF 28 USPATFULL

ACCESSION NUMBER: 1998:162027 USPATFULL
 TITLE: Methods of preparing gas and gaseous precursor-filled microspheres
 INVENTOR(S): Unger, Evan C., Tucson, AZ, United States
 Fritz, Thomas A., Tucson, AZ, United States
 Matsunaga, Terry, Tucson, AZ, United States
 Ramaswami, VaradaRajan, Tucson, AZ, United States
 Yellowhair, David, Tucson, AZ, United States
 Wu, Guanli, Tucson, AZ, United States
 PATENT ASSIGNEE(S): ImaRx Pharmaceutical Corp., Tucson, AZ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5853752		19981229
APPLICATION INFO.:	US 1995-487230		19950606 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1993-159687, filed on 30 Nov 1993, now patented, Pat. No. US 5585112 which is a continuation-in-part of Ser. No. US 1993-160232, filed on 30 Nov 1993, now patented, Pat. No. US 5542935 And Ser. No. US 1993-159674, filed on 30 Nov 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-76239, filed on 11 Jun 1993, now patented, Pat. No. US 5469854 which is a continuation-in-part of Ser. No. US 1991-717084, filed on 18 Jun 1991, now patented, Pat. No. US 5228446 And Ser. No. US 1991-716899, filed on 18 Jun 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-569828, filed on 20 Aug 1990, now patented, Pat. No. US 5088499 which is a continuation-in-part of Ser. No. US 1989-455707, filed on 22 Dec 1989, now abandoned, said Ser. No. US -160232 which is a continuation-in-part of Ser. No. US -76239, said Ser. No. US -717084 which is a continuation-in-part of Ser. No. US -569828		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kishore, Gollamudi S.		
LEGAL REPRESENTATIVE:	Woodcock Washburn Kurtz Mackiewicz & Norris, LLP		
NUMBER OF CLAIMS:	51		

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 12 Drawing Page(s)
LINE COUNT: 3359

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of and apparatus for preparing temperature activated gaseous precursor-filled liposomes are described. Gaseous precursor-filled liposomes prepared by these methods are particularly useful, for example, in ultrasonic imaging applications and in therapeutic drug delivery systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 22 OF 28 USPATFULL

ACCESSION NUMBER: 1998:13698 USPATFULL
TITLE: Methods of preparing gas-filled liposomes
INVENTOR(S): Unger, Evan C., Tucson, AZ, United States
Fritz, Thomas A., Tucson, AZ, United States
Matsunaga, Terry, Tucson, AZ, United States
Ramaswami, VaradaRajan, Tucson, AZ, United States
Yellowhair, David, Tucson, AZ, United States
Wu, Guanli, Tucson, AZ, United States
PATENT ASSIGNEE(S): ImaRx Pharmaceutical Corp., Tucson, AZ, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5715824		19980210
APPLICATION INFO.:	US 1995-471250		19950606 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1993-76239, filed on 11 Jun 1993, now patented, Pat. No. US 5469854 which is a continuation-in-part of Ser. No. US 1991-717084, filed on 18 Jun 1991 And Ser. No. US 1991-716899, filed on 18 Jun 1991, said Ser. No. US -717084 And Ser. No. US -716899, each Ser. No. US - which is a continuation-in-part of Ser. No. US 1990-569828, filed on 20 Aug 1990 which is a continuation-in-part of Ser. No. US 1989-455707, filed on 22 Dec 1989		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Jaworski, Francis		
LEGAL REPRESENTATIVE:	Woodcock Washburn Kurtz Mackiewicz & Norris		
NUMBER OF CLAIMS:	40		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 10 Drawing Page(s)		
LINE COUNT:	2245		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of and apparatus for preparing gas-filled liposomes are described. Gas-filled liposomes prepared by these methods are particularly useful, for example, in ultrasonic imaging applications and in therapeutic drug delivery systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 23 OF 28 USPATFULL

ACCESSION NUMBER: 96:116123 USPATFULL
TITLE: Method of preparing gas and gaseous precursor-filled microspheres
INVENTOR(S): Unger, Evan C., Tucson, AZ, United States
Fritz, Thomas A., Tucson, AZ, United States
Matsunaga, Terry, Tucson, AZ, United States
Ramaswami, VaradaRajan, Tucson, AZ, United States
Yellowhair, David, Tucson, AZ, United States

PATENT ASSIGNEE(S): Wu, Guanli, Tucson, AZ, United States
ImaRx Pharmaceutical Corp., Tucson, AZ, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5585112		19961217
APPLICATION INFO.:	US 1993-159687		19931130 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-160232, filed on 30 Nov 1993, now abandoned And a continuation-in-part of Ser. No. US 1993-159674, filed on 30 Nov 1993, now abandoned , each Ser. No. US - which is a continuation-in-part of Ser. No. US 1993-76239, filed on 11 Jun 1993, now patented, Pat. No. US 5469854 which is a continuation-in-part of Ser. No. US 1991-717084, filed on 18 Jun 1991, now patented, Pat. No. US 5228446 And Ser. No. US 1991-716899, filed on 18 Jun 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-569828, filed on 20 Aug 1990, now patented, Pat. No. US 5088499 which is a continuation-in-part of Ser. No. US 1989-455707, filed on 22 Dec 1989, now abandoned , said Ser. No. US -717084 which is a continuation-in-part of Ser. No. US 1990-569828, filed on 20 Aug 1990, now patented, Pat. No. US 5088499		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kishore, Gollamudi S.		
LEGAL REPRESENTATIVE:	Woodcock Washburn Kurtz Mackiewicz & Norris		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 12 Drawing Page(s)		
LINE COUNT:	3161		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of and apparatus for preparing temperature activated gaseous precursor-filled liposomes are described. Gaseous precursor-filled liposomes prepared by these methods are particularly useful, for example, in ultrasonic imaging applications and in therapeutic drug delivery systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 24 OF 28 USPATFULL

ACCESSION NUMBER: 96:69985 USPATFULL
TITLE: Therapeutic delivery systems related applications
INVENTOR(S): Unger, Evan C., Tucson, AZ, United States
Fritz, Thomas A., Tucson, AZ, United States
Matsunaga, Terry, Tucson, AZ, United States
Ramaswami, VaradaRajan, Tucson, AZ, United States
Yellowhair, David, Tucson, AZ, United States
Wu, Guanli, Tucson, AZ, United States
PATENT ASSIGNEE(S): ImaR.sub.x Pharmaceutical Corp., Tucson, AZ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5542935		19960806
APPLICATION INFO.:	US 1993-160232		19931130 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-159687, filed on 29 Nov 1993 And Ser. No. US 1993-159674, filed on 29 Nov 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-76250, filed on 11 Jun 1993 which		

is a continuation-in-part of Ser. No. US 1991-716899, filed on 18 Jun 1991, now abandoned And Ser. No. US 1991-717084, filed on 18 Jun 1991, now patented, Pat. No. US 5228446 which is a continuation-in-part of Ser. No. US 1990-569828, filed on 20 Aug 1990, now patented, Pat. No. US 5088499 which is a continuation-in-part of Ser. No. US 1989-455707, filed on 22 Dec 1989, now abandoned , said Ser. No. US -159687 which is a continuation-in-part of Ser. No. US -76250 , said Ser. No. US -716899 which is a continuation-in-part of Ser. No. US -569828

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Jaworski, Francis
LEGAL REPRESENTATIVE: Woodcock Washburn Kurtz Mackiewicz & Norris
NUMBER OF CLAIMS: 36
EXEMPLARY CLAIM: 35
NUMBER OF DRAWINGS: 25 Drawing Figure(s); 23 Drawing Page(s)
LINE COUNT: 4275

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Therapeutic delivery systems comprising gaseous precursor-filled microspheres comprising a therapeutic are described. Methods for employing such microspheres in therapeutic delivery applications are also provided. Therapeutic delivery systems comprising gaseous precursor-filled liposomes having encapsulated therein a contrast agent or drug are preferred. Methods of and apparatus for preparing such liposomes and methods for employing such liposomes in therapeutic delivery applications are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 25 OF 28 USPATFULL

ACCESSION NUMBER: 95:104855 USPATFULL
TITLE: Methods of preparing gas-filled liposomes
INVENTOR(S): Unger, Evan C., Tucson, AZ, United States
Fritz, Thomas A., Tucson, AZ, United States
Matsunaga, Terry, Tucson, AZ, United States
Ramaswami, VaradaRajan, Tucson, AZ, United States
Yellowhair, David, Tucson, AZ, United States
Wu, Guanli, Tucson, AZ, United States
PATENT ASSIGNEE(S): ImaR.sub.x Pharmaceutical Corp., Tucson, AZ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5469854		19951128
APPLICATION INFO.:	US 1993-76239		19930611 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1991-717084, filed on 18 Jun 1991, now patented, Pat. No. US 5228446 And Ser. No. US 1991-716899, filed on 19 Jun 1991, now abandoned , each which is a continuation-in-part of Ser. No. US 1990-569828, filed on 20 Aug 1990, now patented, Pat. No. US 5088499 which is a continuation-in-part of Ser. No. US 1989-455707, filed on 22 Dec 1989, now abandoned		

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Jaworski, Francis
LEGAL REPRESENTATIVE: Woodcock Washburn Kurtz Mackiewicz & Norris
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 12 Drawing Figure(s); 10 Drawing Page(s)

LINE COUNT: 2090

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of and apparatus for preparing gas-filled liposomes are described. Gas-filled liposomes prepared by these methods are particularly useful, for example, in ultrasonic imaging applications and in therapeutic drug delivery systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 26 OF 28 EUROPATFULL COPYRIGHT 2003 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 1252885 EUROPATFULL EW 200244 FS OS
TITLE: Methods of preparing gas and gaseous precursor-filled microspheres.
Verfahren zur Herstellung von mit Gas und Gasvorlauerern gefuellten Mikrosphaeren.
Procede pour la fabrication de microspheres remplies d'un gaz et d'un precurseur d'un gaz.
INVENTOR(S): Unger, Evan C., 13365 East Camino, La Cebadilla, Tucson AZ 85749, US;
Ramaswami, Varada Rajan, 2000 East Roger Road, No. I-59, Tucson AZ 85719, US;
Fritz, Thomas A., 5442 East 8th St., Tucson AZ 85711, US;
Yellowhair, David, 2040 North 1st Ave., No. 14, Tucson AZ 85719, US;
Matsunaga, Terry, 751 South Front Royal, Tucson AZ 85710, US;
Wu, Guanli, 2602 West Aiden St., Tucson AZ 85745, US
PATENT ASSIGNEE(S): IMARX PHARMACEUTICAL CORP., 1635 East 18th Street, Tucson, AZ 85719, US
PATENT ASSIGNEE NO: 2069731
AGENT: Hallybone, Huw George et al., Carpmiels and Ransford, 43 Bloomsbury Square, London WC1A 2RA, GB
AGENT NUMBER: 53031
OTHER SOURCE: BEPA2002091 EP 1252885 A2 0056
SOURCE: Wila-EPZ-2002-H44-T1b
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R SE
PATENT INFO.PUB.TYPE: EPA2 EUROPAEISCHE PATENTANMELDUNG
PATENT INFORMATION:

	PATENT NO	KIND DATE
	EP 1252885	A2 20021030
'OFFENLEGUNGS' DATE:		20021030
APPLICATION INFO.:	EP 2002-78168	19940520
PRIORITY APPLN. INFO.:	US 1993-76239	19930611
	US 1993-159674	19931130
	US 1993-159687	19931130
	US 1993-160232	19931130
RELATED DOC. INFO.:	EP 712293	DIV

L3 ANSWER 27 OF 28 EUROPATFULL COPYRIGHT 2003 WILA

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 711127 EUROPATFULL EW 200247 FS PS
TITLE: METHODS OF PREPARING GAS-FILLED LIPOSOMES.

VERFAHREN ZUR BEREITUNG VON LIPOSOMEN MIT
GASEINSCHLUESSEN.

PROCEDE DE PREPARATION DE LIPOSOMES A INCLUSIONS
GAZEUSES.

INVENTOR(S): Unger, Evan C, 13365 E. Camino La Cebadilla, Tucson, AZ
85749, US;
Fritz, Thomas A., 5442 East 8th Street, Tucson, AZ
85711, US;
Matsunaga, Terry, 751 South Front Royal, Tucson, AZ
85710, US;
Ramaswami, VaradaRajan, 2000 East Roger Road no. I-59,
Tucson, AZ 85719, US;
Yellowhair, David, 2040 North 1st Avenue no. 14, Tucson,
AZ 85719, US;
Wu, Guanli, 2602 W. Aiden Street, Tucson, AZ 85745, US
PATENT ASSIGNEE(S): ImaRx Pharmaceutical Corp., 1635 East 18th Street,
Tucson, AZ 85719, US
PATENT ASSIGNEE NO: 2069732
AGENT: Hallybone, Huw George et al., Carpmaels and Ransford, 43
Bloomsbury Square, London WC1A 2RA, GB
AGENT NUMBER: 53031
OTHER SOURCE: BEPB2002083 EP 0711127 B1 0034
SOURCE: Wila-EPS-2002-H47-T2
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R
IE; R IT; R LI; R LU; R MC; R NL; R PT; R SE
PATENT INFO.PUB.TYPE: EPB1 EUROPAEISCHE PATENTSCHRIFT (Internationale
Anmeldung)

PATENT INFORMATION:

PATENT NO	KIND	DATE
EP 711127	B1	20021120
'OFFENLEGUNGS' DATE:		19960515
APPLICATION INFO.:	EP 1994-919184	19940519
PRIORITY APPLN. INFO.:	US 1993-76239	19930611
RELATED DOC. INFO.:	WO 94-US5668	940519 INTAKZ
	WO 9428797	941222 INTPNR
REFERENCE PAT. INFO.:	US 4675310 A	US 4737323 A
	US 4844882 A	US 4877561 A
	US 4895719 A	US 4900540 A
	US 5213804 A	
REF. NON-PATENT-LIT.:	BIOCHIMICA ET BIOPHYSICA ACTA. 986, (1989), 200-206, Elsevier, (RAJIV NAYAR et al.): "Generation of large unilamellar vesicles from long-chain saturated phosphatidylcholines by extrusion technique". See page 201, column 1 upper half	

L3 ANSWER 28 OF 28 EUROPATFULL COPYRIGHT 2003 WILA

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 664713 EUROPATFULL EW 200003 FS PS
TITLE: THERAPEUTIC AND DIAGNOSTIC IMAGING COMPOSITIONS AND
METHODS.
THERAPEUTISCHE UND DIAGNOSTISCHE
BILDERZEUGUNGSZUSAMMENSETZUNG UND VERFAHREN ZUR
HERSTELLUNG.
PROCEDES ET COMPOSITIONS D'IMAGERIE DIAGNOSTIQUE ET
THERAPEUTIQUE.
INVENTOR(S): SNOW, Robert A., 118 Cratin Lane, West Chester, PA
19380, US;

LADD, David L., 1375 Thomas Road, Wayne, PA 19087, US;
 TONER, John L., 109 Brookhollow Drive, Downingtown, PA
 19335, US
 PATENT ASSIGNEE(S): NYCOMED IMAGING AS, Nycoveien 2, 0401 Oslo, NO
 PATENT ASSIGNEE NO: 1564565
 AGENT: Matthews, Derek Peter et al., Frank B. Dehn & Co.,
 European Patent Attorneys, 179 Queen Victoria Street,
 London EC4V 4EL, GB
 AGENT NUMBER: 60131
 OTHER SOURCE: BEPB2000003 EP 0664713 B1 0019
 SOURCE: Wila-EPS-2000-H03-T1
 DOCUMENT TYPE: Patent
 LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
 DESIGNATED STATES: R DE; R ES; R FR; R GB; R IE; R IT
 PATENT INFO.PUB.TYPE: EPB1 EUROPAEISCHE PATENTSCHRIFT (Internationale
 Anmeldung)
 PATENT INFORMATION:

	PATENT NO	KIND	DATE
	EP 664713	B1	20000119
'OFFENLEGUNGS' DATE:			19950802
APPLICATION INFO.:	EP 1993-923819		19931007
PRIORITY APPLN. INFO.:	US 1992-960745		19921014
RELATED DOC. INFO.:	WO 93-US9645	931007	INTAKZ
	WO 9408624	940428	INTPNR
REFERENCE PAT. INFO.:	EP 277088 A	EP 481526	A
	WO 91-18630 A	WO 94-01393	A
REF. NON-PATENT-LIT.:	JOURNAL OF NUCLEAR MEDECINE, vol.31, no.5, May 1990, NEW YORK US page 897 M. CHIROL ET AL. 'RADIOLABELING OF NEW POLYMER CHELATES (PC)'		

=>

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1995-48710	19950308
	JP 1997-970617	19970919
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Bockelman, Mark	
LEGAL REPRESENTATIVE:	Wilson Sonsini Goodrich & Rosati	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	121 Drawing Figure(s); 59 Drawing Page(s)	
LINE COUNT:	3233	

AB A kit and method for causing tissue death within a tissue site is disclosed. The kit includes a media with a light activated drug activatable upon exposure to a particular level of ultrasound energy. The kit also includes a catheter with a lumen coupled with a media delivery port through which the light activated drug can be locally delivered to the tissue site. The ultrasound transducer is configured to transmit the level of ultrasound energy which activates the light activated drug with sufficient power that the ultrasound energy can penetrate the tissue site.

L3 ANSWER 17 OF 28 USPATFULL

ACCESSION NUMBER: 2000:174799 USPATFULL
 TITLE: Biodegradable polymers chain-extended by phosphates, compositions, articles and methods for making and using the same
 INVENTOR(S): Mao, Hai-Quan, Towson, MD, United States
 Leong, Kam W., Ellicott City, MD, United States
 Zhao, Zhong, Baltimore, MD, United States
 English, James P., Chelsea, AL, United States
 PATENT ASSIGNEE(S): Guilford Pharmaceuticals Inc., Baltimore, MD, United States (U.S. corporation)
 Johns Hopkins University, Baltimore, MD, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6166173		20001226
APPLICATION INFO.:	US 1998-53649		19980402 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1997-832217, filed on 3 Apr 1997, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Merriam, Andrew E. C.		
NUMBER OF CLAIMS:	260		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	17 Drawing Figure(s); 14 Drawing Page(s)		
LINE COUNT:	2164		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Biodegradable polymers are described comprising the recurring monomeric units shown in formula I or II: wherein X is --O-- or --NR'--, where R' is H or alkyl; L is a branched or straight chain aliphatic group having from 1-20 carbon atoms; M.sub.1 and M.sub.2 are each independently (1) a branched or straight chain aliphatic group having from 1-20 carbon atoms; or (2) a branched or straight chain, oxy-, carboxy- or amino-aliphatic group having from 1-20 carbon atoms; Y is --O--, --S-- or --NR'--, where R' is H or alkyl; R is H, alkyl, alkoxy, aryl, aryloxy, heterocyclic or heterocycloxy; the molar ratio of x:y is about 1; the molar ratio n:(x or y) is between about 200:1 and 1:200; and the molar ratio q:r is between about 1:99 and 99:1; wherein said

PATENT ASSIGNEE(S): Guilford Pharmaceuticals, Inc., Baltimore, MD, United States (U.S. corporation)
Johns Hopkins University, Baltimore, MD, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6322797	B1	20011127
APPLICATION INFO.:	US 1998-53648		19980402 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1997-832215, filed on 3 Apr 1997, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Truong, Duc		
LEGAL REPRESENTATIVE:	Foley, Hoag & Eliot LLP		
NUMBER OF CLAIMS:	126		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	19 Drawing Figure(s); 15 Drawing Page(s)		
LINE COUNT:	1946		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Biodegradable terephthalate polymers are described comprising the recurring monomeric units shown in formula I: ##STR1##

wherein R is a divalent organic moiety;

R' is an aliphatic, aromatic or heterocyclic residue;

x is .gtoreq.1; and

n is 0-5,000,

wherein the biodegradable **polymer** is **biocompatible** before and upon biodegradation.

Processes for preparing the polymers, compositions containing the polymers and biologically active substances, articles useful for implantation or injection into the body fabricated from the compositions, and methods for controllably releasing biologically active substances using the polymers, are also described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 16 OF 28 USPATFULL

ACCESSION NUMBER: 2001:10304 USPATFULL
TITLE: Ultrasound assembly for use with light activated drugs
INVENTOR(S): Tachibana, Katsuro, Fukuoka, Japan
Tachibana, Shunro, Fukuoka, Japan
Anderson, James R., Redmond, WA, United States
Lichttenegger, Gary, Woodinville, WA, United States
PATENT ASSIGNEE(S): Ekos Corporation, Bothell, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6176842	B1	20010123
APPLICATION INFO.:	US 1998-158316		19980921 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-129980, filed on 5 Aug 1998 Continuation-in-part of Ser. No. US 1997-972846, filed on 18 Nov 1997, now abandoned Continuation of Ser. No. US 1996-611105, filed on 5 Mar 1996, now abandoned		

compositions, articles and methods for making and using the same

INVENTOR(S): Mao, Hai-Quan, Towson, MD, United States
 Leong, Kam W., Ellicott City, MD, United States
 Zhao, Zhong, Baltimore, MD, United States
 English, James P., Chelsea, AL, United States

PATENT ASSIGNEE(S): Guilford Pharmaceuticals, Inc., Baltimore, MD, United States (U.S. corporation)
 Johns Hopkins University School of Medicine, Baltimore, MD, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6376644	B1	20020423
APPLICATION INFO.:	US 2000-654326		20000901 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1998-53649, filed on 2 Apr 1998, now patented, Pat. No. US 6166173 Continuation-in-part of Ser. No. US 1997-832217, filed on 3 Apr 1997, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Szekely, Peter		
LEGAL REPRESENTATIVE:	Foley, Hoag & Eliot, LLP		
NUMBER OF CLAIMS:	116		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	21 Drawing Figure(s); 14 Drawing Page(s)		
LINE COUNT:	1669		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Biodegradable polymers are described comprising the recurring monomeric units shown in formula I or II: ##STR1##

wherein X is --O-- or --NR'--, where R' is H or alkyl; L is a branched or straight chain aliphatic group having from 1-20 carbon atoms; M.sub.1 and M.sub.2 are each independently (1) a branched or straight chain aliphatic group having from 1-20 carbon atoms; or (2) a branched or straight chain, oxy-, carboxy- or amino-aliphatic group having from 1-20 carbon atoms; Y is --O--, --S-- or --NR'--, where R' is H or alkyl; R is H, alkyl, alkoxy, aryl, aryloxy, heterocyclic or heterocycloxy; the molar ratio of x:y is about 1; the molar ratio n:(x or y) is between about 200:1 and 1:200; and the molar ratio q:r is between about 1:99 and 99:1; wherein said biodegradable **polymer** is **biocompatible** before and upon biodegradat. Processes for preparing the polymers, compositions containing the polymers and biologically active substances, articles useful for implantation or injection into the body fabricated from the compositions, and methods for controllably releasing biologically active substances using the polymers, are also described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 15 OF 28 USPATFULL

ACCESSION NUMBER: 2001:214666 USPATFULL

TITLE: Biodegradable terephthalate polyester-poly (phosphate) polymers, compositions, articles, and methods for making and using the same

INVENTOR(S): Mao, Hai-Quan, Towson, MD, United States
 Leong, Kam W., Ellicott City, MD, United States
 Dang, Wenbin, Baltimore, MD, United States
 Lo, Hungnan, Shaker Heights, OH, United States
 Zhao, Zhong, Baltimore, MD, United States
 Nowotnik, David P., Kingsville, MD, United States
 English, James P., Chelsea, AL, United States

CT = controlled terminology
 NT = narrower term
 PFT = old, new or used for terms

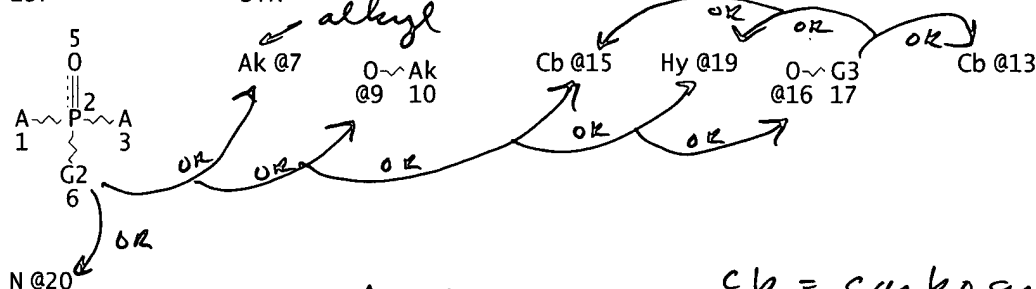
=> d que 147

L28 150789 SEA FILE=HCAPLUS ABB=ON PLU=ON DRUG DELIVERY SYSTEMS+PFT,NT/C
 T

L29 25961 SEA FILE=HCAPLUS ABB=ON PLU=ON MEDICAL GOODS+PFT,NT/CT

L37 STR

indexing
 papers that
 cover these
 topics



ring or chain

VAR G2=H/7/9/19/16/15/20

VAR G3=13/15/19

NODE ATTRIBUTES:

NSPEC IS RC AT 20

CONNECT IS E1 RC AT 7

CONNECT IS E1 RC AT 10

DEFAULT MLEVEL IS ATOM

GGCAT IS SAT AT 13

GGCAT IS UNS AT 15

GGCAT IS UNS AT 19

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M6 C AT 15

cb = carbocyclic
 node 15 is aryl
 node 13 is saturated

Hy = hetero cycle

A = any atom but hydrogen

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L38 SCR 2043

L40 36074 SEA FILE=REGISTRY ABB=ON PLU=ON PMS/CI AND P/ELS

L42 9379 SEA FILE=REGISTRY SUB=L40 SSS FUL L38 AND L37 9379 polymers

L45 4701 SEA FILE=HCAPLUS ABB=ON PLU=ON L42 4701 cites for L42 polymers

L46 54 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND RADIO?/OBI cites w/ radio?

L47 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L46 AND (L28 OR L29) 3 cites related to

medical goods or
 drug delivery

screen for polymers

all polymers
 must have P

obi = old basic
 index

(includes all parts
 of citation but
 the abstract)

=> d ibib abs hitstr 147 1-3

L47 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:293487 HCAPLUS

DOCUMENT NUMBER: 136:330551

TITLE: Synthesis of biocompatible polymeric compositions
useful for **radiosensitizers**
controlled-release for neoplasm treatment

INVENTOR(S): Dang, Wenbin; Leong, Kam W.; Williams, J. A.

PATENT ASSIGNEE(S): Guilford Pharmaceuticals, Inc., USA; Johns Hopkins
University School of Medicine

SOURCE: PCT Int. Appl., 148 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

*applicant/priority
doc*

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002030472	A2	20020418	WO 2001-US31817	20011012
WO 2002030472	A3	20021010		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002015333	A5	20020422	AU 2002-15333	20011012
US 2002198135	A1	20021226	US 2001-976283	20011012
PRIORITY APPLN. INFO.:			US 2000-239807P	P 20001012
			WO 2001-US31817	W 20011012

AB The title compns. comprise: (A) a P-contg. and DL-lactide-based polymer, and (B) .gtoreq.5% one or more radiosensitizer(s), wherein a single dose of the compns. provides extended release of B over .gtoreq.1 day and the compns. are effective to inhibit the growth of neoplasm upon: (1) contacting (or at least partial contact) with the neoplasm or tissue surrounding the neoplasm and (2) subsequent treatment with electromagnetic radiation. Thus, melt-polymg. 28.5 g D,L-lactide and 1.5 g 1,2-propanediol at 135.degree. for 16 h gave a polyester prepolymer, which was added with 2.5 mL dichlorophosphate in 25 mL chloroform in the presence of 6.9 mL triethylamine and 1.21 g DMAP dropwise at 4.degree. for 40 min and further reacted for a h then under reflux for 38 h to give an A after the workup, 5.0 g of which was prepd. to give a 15% soln. of CH₂Cl₂ and mixed homogeneously with 5.0 g IUdR with necessary tech. to give a title compn. showing claimed properties.

IT 263352-40-5P 284667-34-1P 299188-10-6P

391277-29-5P 391277-30-8P 391277-31-9P

412955-93-2P 412955-94-3P 412955-96-5P

RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(preps. of biocompatible polyester compns. useful for
radiosensitizers controlled-release for neoplasm treatment)

RN 263352-40-5 HCAPLUS

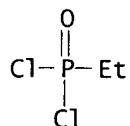
CN 1,4-Benzenedicarboxylic acid, bis(2-hydroxyethyl) ester, polymer with

1,4-benzenedicarbonyl dichloride and ethylphosphonic dichloride (9CI) (CA INDEX NAME)

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CRN 1066-50-8

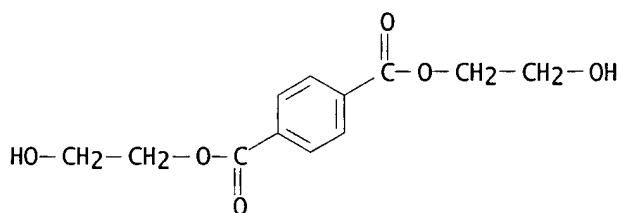
CMF C2 H5 Cl2 O P



CM 2

CRN 959-26-2

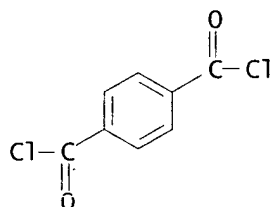
CMF C12 H14 O6



CM 3

CRN 100-20-9

CMF C8 H4 Cl2 O2



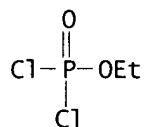
RN 284667-34-1 HCAPLUS

CN Phosphorodichloridic acid, ethyl ester, polymer with 3,6-dimethyl-1,4-dioxane-2,5-dione and 1,2-propanediol (9CI) (CA INDEX NAME)

CM 1

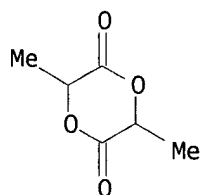
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CMF C2 H5 Cl2 O2 P



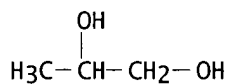
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CRN 95-96-5
CMF C6 H8 O4



CM 3

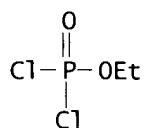
CRN 57-55-6
CMF C3 H8 O2



RN 299188-10-6 HCAPLUS
CN Phosphorodichloridic acid, ethyl ester, polymer with 3,6-dimethyl-1,4-dioxane-2,5-dione and 1,2-ethanediol (9CI) (CA INDEX NAME)

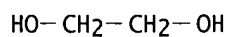
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CRN 1498-51-7
CMF C2 H5 Cl2 O2 P



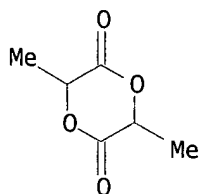
CM 2

CRN 107-21-1
CMF C2 H6 O2



CM 3

CRN 95-96-5
CMF C6 H8 04

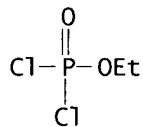


RN 391277-29-5 HCAPLUS

CN Phosphorodichloridic acid, ethyl ester, polymer with 3,6-dimethyl-1,4-dioxane-2,5-dione and 1,6-hexanediol (9CI) (CA INDEX NAME)

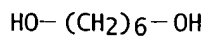
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CRN 1498-51-7
CMF C2 H5 Cl2 O2 P



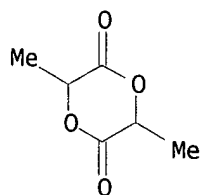
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CRN 629-11-8
CMF C6 H14 O2



CM 3

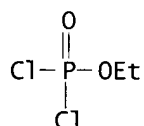
CRN 95-96-5
CMF C6 H8 04



RN 391277-30-8 HCAPLUS
 CN Phosphorodichloridic acid, ethyl ester, polymer with 3,6-dimethyl-1,4-dioxane-2,5-dione, 1,4-dioxane-2,5-dione and 1,2-propanediol (9CI) (CA INDEX NAME)

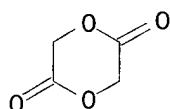
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CRN 1498-51-7
 CMF C2 H5 Cl2 O2 P



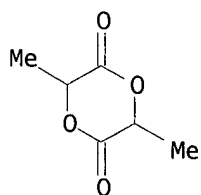
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CRN 502-97-6
 CMF C4 H4 O4



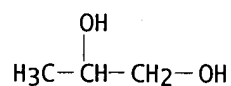
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CRN 95-96-5
 CMF C6 H8 O4



CM 4

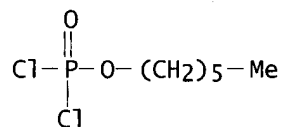
CRN 57-55-6
CMF C3 H8 02



RN	391277-31-9	HCAPLUS
CN	Phosphorodichloridic acid, hexyl ester, polymer with 3,6-dimethyl-1,4-dioxane-2,5-dione and 1,2-propanediol (9CI) (CA INDEX NAME)	

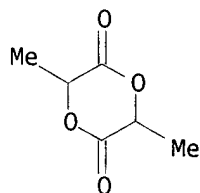
CM 1

CRN 53121-39-4
CMF C6 H13 C12 O2 P



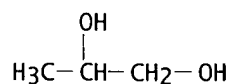
CM 2

CRN 95-96-5
CMF C6 H8 04



CM 3

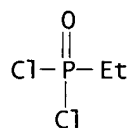
CRN 57-55-6
CMF C3 H8 02



RN	412955-93-2	HCAPLUS
CN	Phosphonic dichloride, ethyl-, polymer with 3,6-dimethyl-1,4-dioxane-2,5-dione and 1,2-propanediol (9CI) (CA INDEX NAME)	

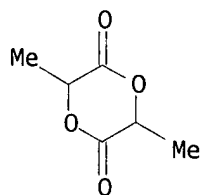
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CRN 1066-50-8
CMF C2 H5 Cl2 O P



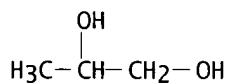
CM 2

CRN 95-96-5
CMF C6 H8 O4



CM 3

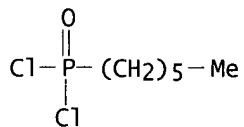
CRN 57-55-6
CMF C3 H8 O2



RN 412955-94-3 HCAPLUS
CN Phosphonic dichloride, hexyl-, polymer with 1,4-cyclohexanedimethanol (9CI) (CA INDEX NAME)

CM 1

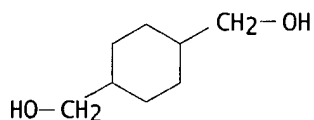
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CMF C6 H13 Cl2 O P



CM 2

CRN 105-08-8

CMF C8 H16 O2



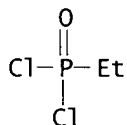
RN 412955-96-5 HCAPLUS

CN 1,4-Benzenedicarboxylic acid, bis(2-hydroxyethyl) ester, polymer with ethylphosphonic dichloride (9CI) (CA INDEX NAME)

CM 1

CRN 1066-50-8

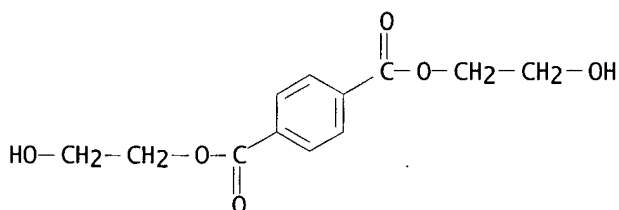
CMF C2 H5 Cl2 O P



CM 2

CRN 959-26-2

CMF C12 H14 O6



L47 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:275772 HCAPLUS

DOCUMENT NUMBER: 136:314989

TITLE: Systemic delivery of compounds through non-invasive bladder administration

INVENTOR(S): Leong, Kam W.; Haller, Michael F.; Malavaud, Bernard A.; Levisage, Catherine S.

PATENT ASSIGNEE(S): Johns Hopkins University, USA

SOURCE: PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

 WO 2002028372 A2 20020411 WO 2001-US31739 20011005
 WO 2002028372 A3 20021017

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
 UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001096800 A5 20020415 AU 2001-96800 20011005

US 2002172717 A1 20021121 US 2001-972725 20011005

PRIORITY APPLN. INFO.:

US 2000-238505P P 20001006

WO 2001-US31739 W 20011005

AB The present invention features methods of administering a therapeutic agent to a patient's lymph nodes by instillation of microparticles or nanoparticles comprising a biocompatible polymer and the therapeutic agent into the patient's bladder. The invention also features methods of modulating a patient's immune response and methods of systemic delivery of a therapeutic agent systematically using the administration methods of the invention. Microspheres of biocompatible poly(D,L-lactide-co-Et phosphate) contg. LacZ DNA were prepd. with encapsulation efficiency of 96% and loading level of 2.0%. Delivery of the microspheres to mice bladder was studied.

IT 335114-71-1

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (systemic delivery of compds. through non-invasive bladder
 administration)

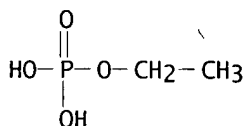
RN 335114-71-1 HCAPLUS

CN Phosphoric acid, monoethyl ester, polymer with 3,6-dimethyl-1,4-dioxane-2,5-dione (9CI) (CA INDEX NAME)

CM 1

CRN 1623-14-9

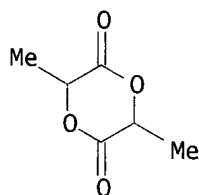
CMF C2 H7 O4 P



CM 2

CRN 95-96-5

CMF C6 H8 O4



L47 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1993:261012 HCAPLUS
 DOCUMENT NUMBER: 118:261012
 TITLE: Biocompatible and biodegradable poly
 (phosphoester-urethane)
 INVENTOR(S): Leong, Kam W.
 PATENT ASSIGNEE(S): Johns Hopkins University, USA
 SOURCE: U.S., 14 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5176907	A	19930105	US 1991-744291	19910813
WO 9303739	A1	19930304	WO 1992-US6810	19920813

W: CA, JP

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE

PRIORITY APPLN. INFO.: US 1991-744291 19910813

AB The title polymers are prepd. for use as drug delivery devices and implants. Thus, 5-fluorouracil (I), 1,1,1,3,3,3-hexamethyldisilazane was refluxed in the presence of ammonium sulfate to obtain 2,4-bis-o-trimethylsilyl-5-fluorouracil, which was conjugated to MDI-bis(2-hydroxyethyl)phosphite-PEG copolymer. The sustained-release of I from the polymer was obsd. for 30 days.

IT **147737-96-ODP**, conjugates with (trimethylsilyl)fluorouracil
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, for drug delivery)

RN 147737-96-0 HCAPLUS

IT **52678-03-2P 147737-92-6P 147737-93-7P**
147737-94-8P 147737-95-9P 147737-96-0P
147737-97-1P 147737-98-2P 147737-99-3P
148435-09-0P

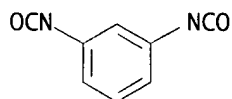
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, for drug delivery device and implants)

RN 52678-03-2 HCAPLUS

CN Phosphonic acid, bis(2-hydroxyethyl) ester, polymer with 1,3-diisocyanatomethylbenzene (9CI) (CA INDEX NAME)

CM 1

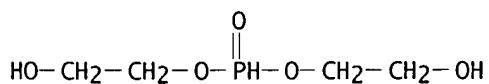
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 CMF C9 H6 N2 O2
 CCI IDS



D1-Me

CM 2

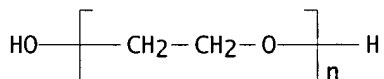
CRN 16892-10-7
CMF C4 H11 O5 P



RN 147737-92-6 HCAPLUS
CN Phosphonic acid, bis(2-hydroxyethyl) ester, polymer with
.alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and
1,1'-methylenebis[4-isocyanatobenzene] (9CI) (CA INDEX NAME)

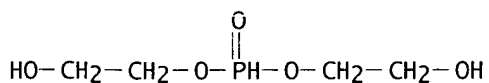
CM 1

CRN 25322-68-3
CMF (C2 H4 O)n H2 O
CCI PMS



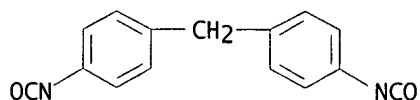
CM 2

CRN 16892-10-7
CMF C4 H11 O5 P



CM 3

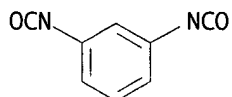
CRN 101-68-8
CMF C15 H10 N2 O2



RN 147737-93-7 HCAPLUS
 CN Phosphonic acid, bis(2-hydroxyethyl) ester, polymer with
 1,2-diisocyanatomethylbenzene and .alpha.-hydro-.omega.-hydroxypoly(oxy-
 1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

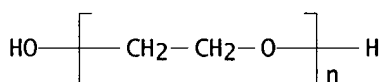
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 CMF C9 H6 N2 O2
 CCI IDS



D1-Me

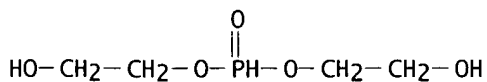
CM 2

CRN 25322-68-3
 CMF (C2 H4 O)_n H2 O
 CCI PMS



CM 3

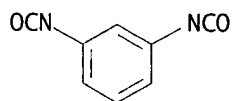
CRN 16892-10-7
 CMF C4 H11 O5 P



RN 147737-94-8 HCAPLUS
 CN Phosphonic acid, bis(2-hydroxyethyl) ester, polymer with
 1,3-diisocyanatomethylbenzene and 4,4'-(1-methylethylidene)bis[pheno]l
 (9CI) (CA INDEX NAME)

CM 1

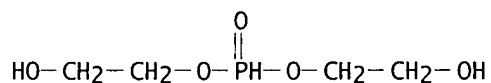
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CMF C9 H6 N2 O2
CCI IDS



D1-Me

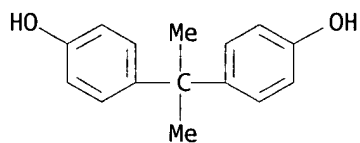
CM 2

CRN 16892-10-7
CMF C4 H11 O5 P



CM 3

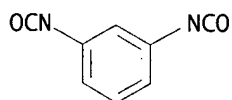
CRN 80-05-7
CMF C15 H16 O2



RN 147737-95-9 HCAPLUS
CN Phosphonic acid, bis(2-hydroxyethyl) ester, polymer with
1,3-diisocyanatomethylbenzene and .alpha.-hydro-.omega.-hydroxypoly(oxy-
1,4-butanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 26471-62-5
CMF C9 H6 N2 O2
CCI IDS



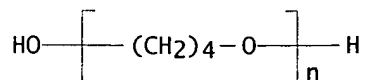
D1-Me

CM 2

CRN 25190-06-1

CMF (C4 H8 O)_n H2 O

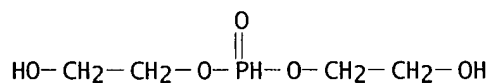
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CM 3

CRN 16892-10-7

CMF C4 H11 O5 P



RN 147737-96-0 HCAPLUS

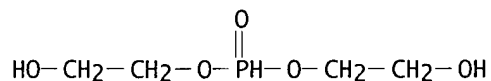
RN 147737-97-1 HCAPLUS

CN Phosphonic acid, bis(2-hydroxyethyl) ester, polymer with
1,1'-methylenebis[4-isocyanatobenzene] (9CI) (CA INDEX NAME)

CM 1

CRN 16892-10-7

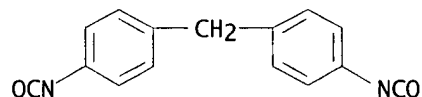
CMF C4 H11 O5 P



CM 2

CRN 101-68-8

CMF C15 H10 N2 O2



RN 147737-98-2 HCAPLUS

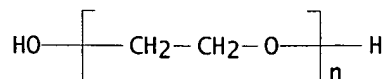
CN Hexanoic acid, 2,6-diisocyanato-, methyl ester, polymer with
1,4-benzenedimethanol, bis(2-hydroxyethyl) phosphonate and
.alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX
NAME)

CM 1

CRN 25322-68-3

CMF (C2 H4 O)_n H2 O

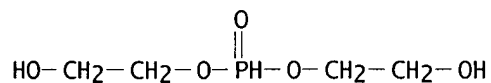
CCI PMS



CM 2

CRN 16892-10-7

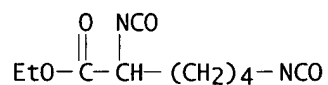
CMF C4 H11 O5 P



CM 3

CRN 4254-76-6

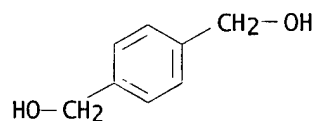
CMF C10 H14 N2 O4



CM 4

CRN 589-29-7

CMF C8 H10 O2



RN 147737-99-3 HCAPLUS

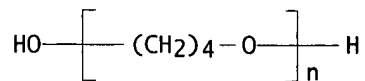
CN Hexanoic acid, 2,6-diisocyanato-, methyl ester, polymer with 1,4-benzenedimethanol, bis(2-hydroxyethyl) phosphonate and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,4-butanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 25190-06-1

CMF (C4 H8 O)_n H2 O

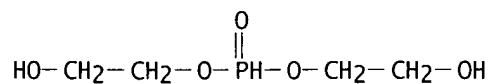
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CM 2

CRN 16892-10-7

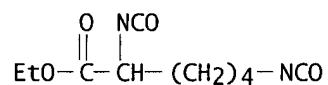
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CM 3

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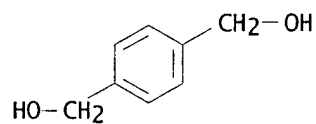
CMF C10 H14 N2 O4



CM 4

CRN 589-29-7

CMF C8 H10 O2



RN 148435-09-0 HCAPLUS

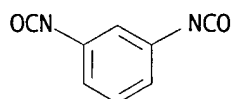
CN Phosphonic acid, bis(2-hydroxyethyl) ester, polymer with
1,3-diisocyanatomethylbenzene, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-
ethanediyl) and 4,4'-(1-methylethylidene)bis[phenol] (9CI) (CA INDEX
NAME)

CM 1

CRN 26471-62-5

CMF C9 H6 N2 O2

CCI IDS



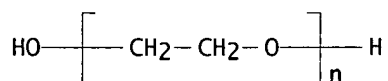
D1-Me

CM 2

CRN 25322-68-3

CMF (C2 H4 O)_n H2 O

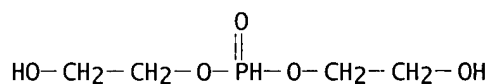
CCI PMS



CM 3

CRN 16892-10-7

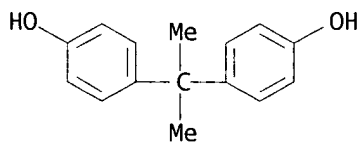
CMF C4 H11 O5 P



CM 4

CRN 80-05-7

CMF C15 H16 O2



=> d ind 147 3

L47 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2003 ACS

IC ICM A61K031-74

ICS C08G018-28; C08G018-48; C08G018-10

NCL 424078080

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 35, 38

ST biodegradable polyphosphoester urethane implant; fluorouracil phosphoester

- urethane polymer sustained release
- IT Therapeutics
(chemo-, conjugates, with phosphopolyurethanes, for drug delivery)
- IT Agglutinins and Lectins
RL: BIOL (Biological study)
(conjugates, with phosphopolyurethanes)
- IT **Pharmaceutical dosage forms**
(**implants, sustained-release,**
phosphopolyurethane conjugates with drugs in)
- IT Urethane polymers, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polyester-, phosphorus-contg., drug delivery device and implants from)
- IT Pharmaceuticals
~~(radio-, conjugates, with phosphopolyurethanes)~~
- IT **Pharmaceutical dosage forms**
(**sustained-release,** phosphopolyurethane conjugates
with drugs in)
- IT 4254-76-6DP, polymer with bis(hydroxyethyl) phosphite, dimethylolbenzene,
and polycaprolactone 16892-10-7DP, Bis(2-hydroxyethyl)phosphite, polymer
with dimethylolbenzene, ethyl diisocyanatohexanoate, and polycaprolactone
diol
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and polymn. of)
- IT 32315-10-9P, Triphosgene
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and reaction of, with bis(trimethylsilyl)lysine)
- IT 4117-33-3P, Lysine ethyl ester
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and reaction of, with hexamethyldisilazane)
- IT 147960-66-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and reaction of, with triphosgene)
- IT 17242-85-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. of, for conjugation to polymers)
- IT 59-05-2DP, Methotrexate, conjugates with phosphopolyurethanes
147737-96-0DP, conjugates with (trimethylsilyl)fluorouracil
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
study); PREP (Preparation); USES (Uses)
(prepn. of, for drug delivery)
- IT 589-29-7DP, polymer with bis(hydroxyethyl) phosphite, ethyl
diisocyanatohexanoate, and polycaprolactone diol 4254-76-6DP, polymer
with bis(hydroxyethyl) phosphite, dimethylolbenzene, and polycaprolactone
diol 16892-10-7DP, polymer with dimethylolbenzene, ethyl
diisocyanatohexanoate, and polycaprolactone diol 17242-85-2DP,
conjugates with phosphopolyurethanes 25248-42-4DP, diol derivs., polymer
with bis(hydroxyethyl) phosphite, dimethylolbenzene, and ethyl
diisocyanatohexanoate **52678-03-2P 147737-92-6P**
147737-93-7P 147737-94-8P 147737-95-9P
147737-96-0P 147737-97-1P 147737-98-2P
147737-99-3P 148435-09-0P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
study); PREP (Preparation); USES (Uses)
(prepn. of, for drug delivery device and implants)
- IT 107-21-1, 1,2-Ethanediol, reactions

- RL: RCT (Reactant); RACT (Reactant or reagent)
 - (reaction of, with di-Et phosphite)
- IT 762-04-9, Diethylphosphite
 - RL: RCT (Reactant); RACT (Reactant or reagent)
 - (reaction of, with ethylene glycol)
- IT 999-97-3, 1,1,1,3,3,3,-Hexamethyldisilazane
 - RL: RCT (Reactant); RACT (Reactant or reagent)
 - (reaction of, with fluorouracil)
- IT 51-21-8, 5-Fluorouracil
 - RL: RCT (Reactant); RACT (Reactant or reagent)
 - (reaction of, with hexamethyldisilazane)
- IT 7719-09-7, Thionyl chloride
 - RL: RCT (Reactant); RACT (Reactant or reagent)
 - (reaction of, with lysine)
- IT 657-27-2, Lysine monohydrochloride
 - RL: RCT (Reactant); RACT (Reactant or reagent)
 - (reaction of, with thionyl chloride)

*search for
priority document*

=> d his 11-19

(FILE 'HOME' ENTERED AT 14:32:04 ON 22 APR 2003)

FILE 'HCAPLUS' ENTERED AT 14:32:13 ON 22 APR 2003

L1 75 S DANG W?/AU
L2 424 S LEONG K?/AU
L3 9927 S WILLIAMS J?/AU
L4 10416 S L1-3
L5 10 S L4 AND RADIOSENS?
L6 1 S L5 AND PATENT/DT ← 1 patent
SELECT RN L6 1

selecting registry #'s from L6 patent

FILE 'REGISTRY' ENTERED AT 14:36:36 ON 22 APR 2003

L7 10 S E1-10 10 cpds from selected registry #'s
L8 9 S L7 AND P/ELS

FILE 'HCAPLUS' ENTERED AT 14:37:19 ON 22 APR 2003

L9 1 S L7 AND L6 1 cite w/ 10 cpds displayed

=> d ibib abs hitstr ind

L9 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:293487 HCAPLUS

DOCUMENT NUMBER: 136:330551

TITLE: Synthesis of biocompatible polymeric compositions
useful for **radiosensitizers**
controlled-release for neoplasm treatmentINVENTOR(S): **Dang, Wenbin; Leong, Kam W.;**
Williams, J. A.PATENT ASSIGNEE(S): Guilford Pharmaceuticals, Inc., USA; Johns Hopkins
University School of Medicine

SOURCE: PCT Int. Appl., 148 pp.

CODEN: PIXXD2

DOCUMENT TYPE: **Patent**

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002030472	A2	20020418	WO 2001-US31817	20011012
WO 2002030472	A3	20021010		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002015333	A5	20020422	AU 2002-15333	20011012
US 2002198135	A1	20021226	US 2001-976283	20011012
PRIORITY APPLN. INFO.:			US 2000-239807P	P 20001012
			WO 2001-US31817	W 20011012

AB The title compns. comprise: (A) a P-contg. and DL-lactide-based polymer, and (B) .gtoreq.5% one or more **radiosensitizer(s)**, wherein a single dose of the compns. provides extended release of B over .gtoreq.1 day and the compns. are effective to inhibit the growth of neoplasm upon: (1) contacting (or at least partial contact) with the neoplasm or tissue surrounding the neoplasm and (2) subsequent treatment with electromagnetic radiation. Thus, melt-polymg. 28.5 g D,L-lactide and 1.5 g 1,2-propanediol at 135.degree. for 16 h gave a polyester prepolymer, which was added with 2.5 mL dichlorophosphate in 25 mL chloroform in the presence of 6.9 mL triethylamine and 1.21 g DMAP dropwise at 4.degree. for 40 min and further reacted for a h then under reflux for 38 h to give an A after the workup, 5.0 g of which was prepd. to give a 15% soln. of CH₂Cl₂ and mixed homogeneously with 5.0 g IUdR with necessary tech. to give a title compn. showing claimed properties.

IT **263352-40-5P 284667-34-1P 299188-10-6P**
391277-29-5P 391277-30-8P 391277-31-9P
412955-93-2P 412955-94-3P 412955-96-5P

RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(prepn. of biocompatible polyester compns. useful for
radiosensitizers controlled-release for neoplasm treatment)

RN 263352-40-5 HCAPLUS

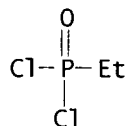
CN 1,4-Benzenedicarboxylic acid, bis(2-hydroxyethyl) ester, polymer with

1,4-benzenedicarbonyl dichloride and ethylphosphonic dichloride (9CI) (CA INDEX NAME)

CM 1

CRN 1066-50-8

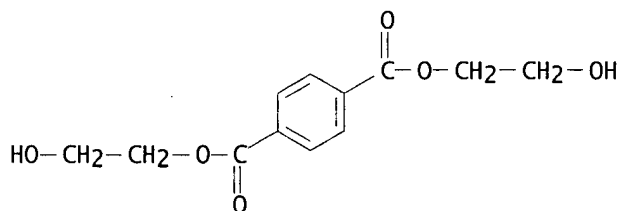
CMF C2 H5 Cl2 O P



CM 2

CRN 959-26-2

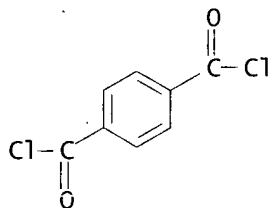
CMF C12 H14 O6



CM 3

CRN 100-20-9

CMF C8 H4 Cl2 O2



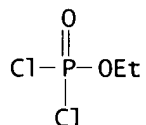
RN 284667-34-1 HCAPLUS

CN Phosphorodichloridic acid, ethyl ester, polymer with 3,6-dimethyl-1,4-dioxane-2,5-dione and 1,2-propanediol (9CI) (CA INDEX NAME)

CM 1

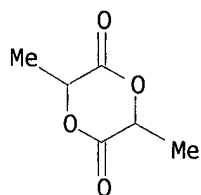
CRN 1498-51-7

CMF C2 H5 Cl2 O2 P



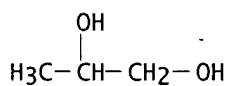
CM 2

CRN 95-96-5
CMF C6 H8 O4



CM 3

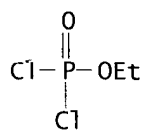
CRN 57-55-6
CMF C3 H8 O2



RN 299188-10-6 HCAPLUS
CN Phosphorodichloridic acid, ethyl ester, polymer with 3,6-dimethyl-1,4-dioxane-2,5-dione and 1,2-ethanediol (9CI) (CA INDEX NAME)

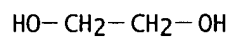
CM 1

CRN 1498-51-7
CMF C2 H5 Cl2 O2 P



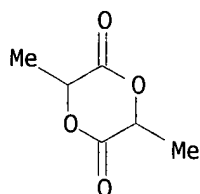
CM 2

CRN 107-21-1
CMF C2 H6 O2



CM 3

CRN 95-96-5
CMF C6 H8 O4

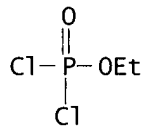


RN 391277-29-5 HCAPLUS

CN Phosphorodichloridic acid, ethyl ester, polymer with 3,6-dimethyl-1,4-dioxane-2,5-dione and 1,6-hexanediol (9CI) (CA INDEX NAME)

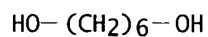
CM 1

CRN 1498-51-7
CMF C2 H5 Cl2 O2 P



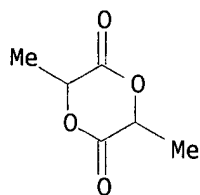
CM 2

CRN 629-11-8
CMF C6 H14 O2



CM 3

CRN 95-96-5
CMF C6 H8 O4



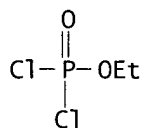
RN 391277-30-8 HCAPLUS

CN Phosphorodichloridic acid, ethyl ester, polymer with 3,6-dimethyl-1,4-dioxane-2,5-dione, 1,4-dioxane-2,5-dione and 1,2-propanediol (9CI) (CA INDEX NAME)

CM 1

CRN 1498-51-7

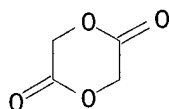
CMF C2 H5 Cl2 O2 P



CM 2

CRN 502-97-6

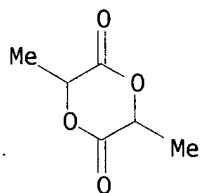
CMF C4 H4 O4



CM 3

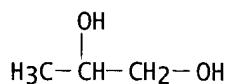
CRN 95-96-5

CMF C6 H8 O4



CM 4

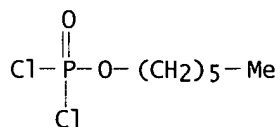
CRN 57-55-6
CMF C3 H8 O2



RN 391277-31-9 HCAPLUS
CN Phosphorodichloridic acid, hexyl ester, polymer with 3,6-dimethyl-1,4-dioxane-2,5-dione and 1,2-propanediol (9CI) (CA INDEX NAME)

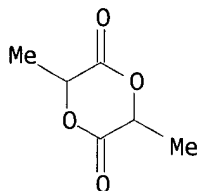
CM 1

CRN 53121-39-4
CMF C6 H13 Cl2 O2 P



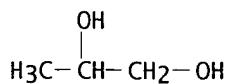
CM 2

CRN 95-96-5
CMF C6 H8 O4



CM 3

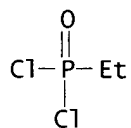
CRN 57-55-6
CMF C3 H8 O2



RN 412955-93-2 HCAPLUS
CN Phosphonic dichloride, ethyl-, polymer with 3,6-dimethyl-1,4-dioxane-2,5-dione and 1,2-propanediol (9CI) (CA INDEX NAME)

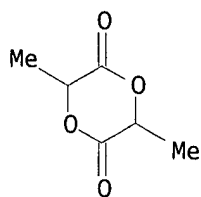
CM 1

CRN 1066-50-8
CMF C2 H5 Cl2 O P



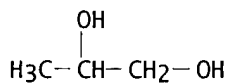
CM 2

CRN 95-96-5
CMF C6 H8 O4



CM 3

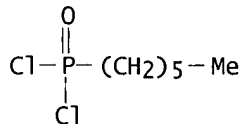
CRN 57-55-6
CMF C3 H8 O2



RN 412955-94-3 HCAPLUS
CN Phosphonic dichloride, hexyl-, polymer with 1,4-cyclohexanedimethanol (9CI) (CA INDEX NAME)

CM 1

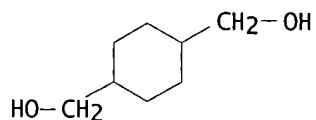
CRN 928-64-3
CMF C6 H13 Cl2 O P



CM 2

CRN 105-08-8

CMF C8 H16 O2



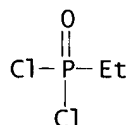
RN 412955-96-5 HCAPLUS

CN 1,4-Benzenedicarboxylic acid, bis(2-hydroxyethyl) ester, polymer with ethylphosphonic dichloride (9CI) (CA INDEX NAME)

CM 1

CRN 1066-50-8

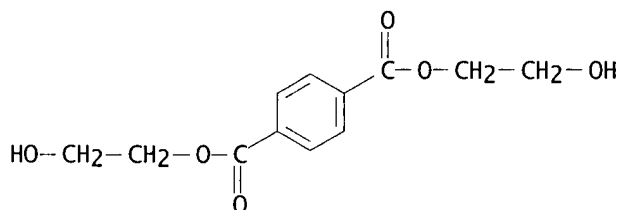
CMF C2 H5 Cl2 O P



CM 2

CRN 959-26-2

CMF C12 H14 O6



IT 54-42-2, IUdR

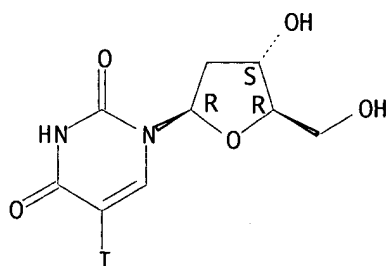
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(**radiosensitizer**; preps. of biocompatible polyester compns. useful for **radiosensitizers** controlled-release for neoplasm treatment)

RN 54-42-2 HCAPLUS

CN Uridine, 2'-deoxy-5-iodo- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



- IC ICM A61K051-00
 CC 63-6 (Pharmaceuticals)
 Section cross-reference(s): 35
 ST lactide dichlorophosphate propanediol biocompatible polyester prepn; IUDR
radiosensitizer controlled release compn neoplasm treatment;
 electromagnetic radiation neoplasm treatment
 IT Polyesters, biological studies
 RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical
 process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological
 study); PREP (Preparation); PROC (Process); USES (Uses)
 (P-contg.; preps. of biocompatible polyester compns. useful for
radiosensitizers controlled-release for neoplasm treatment)
 IT Medical goods
 (biodegradable; preps. of biocompatible polyester compns. useful for
radiosensitizers controlled-release for neoplasm treatment)
 IT Polymers, biological studies
 RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical
 process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological
 study); PREP (Preparation); PROC (Process); USES (Uses)
 (biodegradable; preps. of biocompatible polyester compns. useful for
radiosensitizers controlled-release for neoplasm treatment)
 IT Drug delivery systems
 (controlled-release; preps. of biocompatible polyester compns. useful
 for **radiosensitizers** controlled-release for neoplasm
 treatment)
 IT Biodegradable materials
 (medical; preps. of biocompatible polyester compns. useful for
radiosensitizers controlled-release for neoplasm treatment)
 IT Drug delivery systems
 (microspheres; preps. of biocompatible polyester compns. useful for
radiosensitizers controlled-release for neoplasm treatment)
 IT Antitumor agents
Radiosensitizers, biological
 (preps. of biocompatible polyester compns. useful for
radiosensitizers controlled-release for neoplasm treatment)
 IT 263352-40-5P 284667-34-1P 299188-10-6P
 391277-29-5P 391277-30-8P 391277-31-9P
 412955-93-2P 412955-94-3P 412955-96-5P
 RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical
 process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological
 study); PREP (Preparation); PROC (Process); USES (Uses)
 (preps. of biocompatible polyester compns. useful for
radiosensitizers controlled-release for neoplasm treatment)
 IT 54-42-2, IUDR
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP
 (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC
 (Process); USES (Uses)

AZPURU 09/976,283

(**radiosensitizer**; preps. of biocompatible polyester compns.
useful for **radiosensitizers** controlled-release for neoplasm
treatment)